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M	AvgFeederLen	I I imaa Timaa I		
	1	Lines Times	= AvgFeederLength	
	gth	Average		
		Feeder Length		.
N	LinesLoopLen	Total Lines	= LinesLoopLength	
	gth	Loop Length		
0	DistrCost	Total	= DistrCost	
		Distribution		1
1		Cost		1
P	FeederCost	Grand Total	= FeederCost	
•		Feeder Cost		
Q	LoopCost	UnCapped	= LoopCost	
Y	Loopcost	Total Loop	- 200pensi	
ŀ		Cost		}
R	CapLoopCost	Capped Total	= CapLoopCost	
*	Сарьоорсозі	Loop Cost	= Caproopeost	ĺ
$\frac{1}{s}$	LandInv	2111	= LandInv	
3	Lanumy	Uncapped	- Laidinv	
		Land		}
	!	Investment		
_ _+	Didata		DIJ-T	<u> </u>
T	BldgInv	2121	= BldgInv	
l	ì	Uncapped		
j		Building		
		Investment		
U	SWInv	2210	= SwitchInv	
1		Uncapped		
		Switching and		
J		Signaling		
		Investment		
V	CircuitInv	Uncapped	= CircuitInv	
		2230 Total		
-	4	DLC, DS1		
		Electronic		
		Investment		
\mathbf{w}	IOFInv	2232	= IOFInv	
ł	l	Uncapped IOF		
		Investment		
X	AerialCopperI	UnCapped	= AerialCopperInv	. — —
	nv	2421 Aerial		
ŀ	ļ	Copper Cable	,	
1	į	Investment	Į.	

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Y	UndergndCop	UnCapped	= UndergndCopperInv	
1	perInv	2422	= Oldergridcoppertity	
1	permy			
1	1	Underground		
1		Copper Cable		
<u> </u>		Investment		
Z	BuriedCopperI	UnCapped	= BuriedCopperInv	
1	nv	2423 Buried		
ì		Copper Cable		
	<u> </u>	Investment		
AA	AerialFiberInv	UnCapped	= AerialFiberInv	
1		2421 Aerial		
ł		Fiber Cable		
l	l	Investment		
AB	UndergndFiber	UnCapped	= UndergndFiberInv	
ĺ	Inv	2422		
		Underground		
	ĺ	Fiber Cable		
ĺ		Investment		
AC	BuriedFiberIn	UnCapped	= BuriedFiberInv	
	l v	2423 Buried		
]		Fiber Cable		j
		Investment		
AD	PoleInv	UnCapped	= PoleInv	
		2411 Pole Line	·	
}		Investment		l
AE	ConduitInv	UnCapped	= ConduitInv	
		2441 Conduit		
		Investment		
AF	MotorVehSup	UnCapped	= MotorVehSupport	
	port	2112 Motor		
	1.0	Vehicles		
AG	SPVehSupport	UnCapped	= SPVehSupport	
		2114 Special		
	[Purpose		
		Vehicles		
AH	GarageWorkS	UnCapped	= GarageWorkSupport	
	upport	2115 Garage		
ļ	abbout	Work		j
	j	Equipment		
		2-quipinoit		

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AI	OtherWorkSup port	UnCapped 2116 Other Work Equipment	= OtherWorkSupport	
AJ	NetworkSuppo rt	UnCapped 2110 Network Support	= NetworkSupport	
AK	FurnitureSupp ort	UnCapped 2122 Furniture Support Investment	= FurnitureSupport	
AL	OfficeSupport	UnCapped 2123 Office Support Investment	= OfficeSupport	
AM	GPComputers Support	UnCapped 2124 General Purpose Computers	= GPComputersSupport	
AN	GeneralSuppor t	UnCapped 2120 General Support	= GeneralSupport	
AO	OtherInvInclL andBldg	UnCapped 2110 Land and Support Investment	= OtherInvInclLandBldg	
AP	CapCircuitInv	Capped 2230 Circuit Investment	= CapCircuitInv	
AQ	CapPoleInv	Capped 2411 Pole Line Investment	= CapPoleInv	
AR	CapAerialCop perInv	Capped 2421 Aerial Copper Cable Investment	= CapAerialCopperInv	
AS	CapUndergnd CopperInv	Capped 2422 Underground Copper Cable Investment	= CapUndergndCopperInv	

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1 4 75	10 p : 10	I C. I	0.0.10	 1
AT	CapBuriedCop	Capped	= CapBuriedCopperInv	
1	perInv	2423 Buried		
	ł	Copper Cable		
	<u> </u>	Investment		
AU	CapAerialFibe	Capped	= CapAcrialFiberInv	
1	rInv	2421 Aerial		
ĺ		Fiber Cable		
<u> </u>		Investment		
AV	CapUndergnd	Capped	= CapUndergndFiberInv	
j	FiberInv	2422		j
Ì		Underground		
1		Fiber Cable		•
ĺ		Investment		
AW	CapBuriedFibe	Capped	= CapBuriedFiberInv	
1	rInv	2423 Buried		
]]	Fiber Cable		•
		Investment		
AX	CapConduitIn	Capped	= CapConduitInv	
	l v	2441 Conduit		
		Investment		
AY	CapMotorVeh	Capped	= CapMotorVehSupport	
	Support	2112 Motor		
		Vehicles		
AZ	CapSPVehSup	Capped	= CapSPVehSupport	
	port	2114 Special		
		Purpose		
		Vehicles		
BA	CapGarageWo	Capped	= CapGarageWorkSupport	
	rkSupport	2115 Garage		}
		Work		[
		Equipment		
BB	CapOtherWor	Capped	= CapOtherWorkSupport	
	kSupport	2116 Other		ļ
	• • •	Work		}
	İ	Equipment		
BC	CapFurnitureS	Capped	= CapFurnitureSupport	
}	upport	2122 Furniture		
	• •	Support		
ļ		Investment		ļ

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L D.D.	T.CO.CC	10-1		
BD	CapOfficeSup	Capped	= CapOfficeSupport	
1	port	2123 Office		
1		Support		
ļ	<u> </u>	Investment		
BE	CapGPComput	Capped	= CapGPComputersSupport	
Į.	ersSupport	2124 General		
1		Purpose		
	<u> </u>	Computers		
BF	CapOtherInvIn	Capped	= CapOtherInvInclLandBldg	·
İ	clLandBldg	2110 Land and		İ
1	İ	Support		
	l	Investment		
BG	Acct6110	UnCapped	= Acct6110 + BAcct6110	
ļ	1	6110 Network		
l		Support		
ł		Expenses		_
BH	Acct6120	UnCapped	= Acct6120 + BAcct6120	
		6120 General		
[ſ	Support		1
		Expense		
BI	Acct6210	6210	= Acct6210 + BAcct6210	
		Switching		
		Expense		İ
BJ	Acct6230	UnCapped	= Acct6230 + BAcct6230	
		6230 Central		
		Office		
		Transmission		1
	:	Expense		
BK	Acct6230IOF	6230	= Acct6230IOF + BAcct6230IOF	
		InterOffice		ĺ
ĺ		Transmission		ĺ
BL	Acct6310	6310	= Acct6310 + BAcct6310	
		Information		ļ
)	ļ	Origination /		1
1		Termination		1
1		Expense		ł
BM	Acc16411	UnCapped	= Acct6411 + BAcct6411	
D141	/10010471	6411 Poles	- ACCOSTI I DIACCOSTI	ļ
{		Expense		Į
1		LAPCHSC		

DNI	Acct64211	II-C	= Acct64211 + BAcct64211
BN	Accto4211	UnCapped 6421 Aerial	= Accio4211 + BAccio4211
	1	Copper Cable	
<u> </u>	ļ	Expense	
BO	Acct64212	UnCapped	= Acct64212 + BAcct64212
ļ		6421 Aerial	
ĺ		Fiber Cable	
		Expense	
BP	Acct64221	UnCapped	= Acct64221 + BAcct64221
ļ	ļ	6422	
		Underground	
	}	Copper Cable	
		Expense	
BQ	Acct64222	UnCapped	= Acct64222 + BAcct64222
•		6422	
		Underground	
		Fiber Cable	
		Expense	
BR	Acct64231	UnCapped	= Acct64231 + BAcct64231
DIC	1100001231	6423 Buried	
	l	Copper Cable	
		Expense	
BS	Acct64232	UnCapped	= Acct64232 + BAcct64232
DS	ACC104232	6423 Buried	- ACCIO+232 + DACCIO+232
		Fiber Cable	
ВТ	Acct6441	Expense	= Acct6441 + BAcct6441
ВІ	Accto441	UnCapped 6441 Conduit	= ACC10441 + BACC10441
		Investment	
		System	
		Expense	
BU	Acct6410	UnCapped	= Acct6410 + BAcct6410
		6410 Cable	
		and Wire	
		Facilities	
		Expense	
BV	Acct6510	6510 Other	= Acct6510 + BAcct6510
ł		Property, Plant	
		and Equipment	
ĺ		Expense	
		1 - 1 - 1	

*****	1 4 (520	T (530 N	700 0	
BW	Acct6530	6530 Network	= Acct6530 + BAcct6530	
1		Operations		
	<u> </u>	Expense		
BX	Acc16610	6610 Customer	= Acct6610 + BAcct6610	
1		Operations -		
)	J	Marketing		i
	<u> </u>	Expense		
BY	Acct6620	6620 Customer	= Acct6620 + BAcct6620	
ĺ	ľ	Operations -		
		Services		
l	ļ	Expense		
BZ	Acct6710	6710	= Acct6710 + BAcct6710	
		Corporate		
ĺ		Operations -		
		Executive and		
1	1	Planning		ĺ
l	ļ	Expense		
CA	Acct6720	6720	= Acct6720 + BAcct6720	······································
CA	Acciorzo	Corporate	- Nector20 + Brector20	1
		Operations -		ł
i		General and		
		Administrative		
		1 1		
CD	Acct6790	Expense 6790	= Acct6790 + BAcct6790	
CB	Accto/90		= Accio/90 + BAccio/90	
		Corporate		
	•	Operations -		
		Uncollectible		}
		Expense		
CC	TotalOperating	UnCapped	= TotalOperatingExpense + BTotalOperatingExpense	Ì
	Expense	Total		ł
		Operating		
		Expense		
CD	CapAcct6110	Capped	= CapAcct6110 + CapBAcct6110	
ĺ		6110 Network		
- 1		Support		
- 1		Expenses		1
CE	CapAcct6230	Capped	= CapAcct6230 + CapBAcct6230	
	•	6230 Central		(
		Office		
		Transmission		
Ì		Expense		1
			<u></u>	

	T = 1 - 21		
CF	CapAcct6411	Capped	= CapAcct6411 + CapBAcct6411
1		6411 Poles	
L		Expense	
CG	CapAcct64211		= CapAcct64211 + CapBAcct64211
İ		6421 Aerial	
[Copper Cable	
1	j	Expense	
CH	CapAcct64212	Capped	= CapAcct64212 + CapBAcct64212
ł		6421 Aerial	
1	ł	Fiber Cable	
Ī	1	Expense	
CI	CapAcct64221	Capped	= CapAcct64221 + CapBAcct64221
``	Cap. 14410 1221	6422	
1		Underground	
ļ		Copper Cable	
		Expense	
CJ	CapAcet64222	Capped	= CapAcct64222 + CapBAcct64222
	Caprice to 4222	6422	= Capricito4222 Capbriceto4222
		Underground	
İ		Fiber Cable	
[1	Expense	
CK	Can A 2016 1221	Capped	= CapAcct64231 + CapBAcct64231
CK	CapAcct64231	6423 Buried	= CapAccto4251 + CapBAccto4251
	1	1	
Ì		Copper Cable	
- CI	C A ((4222	Expense	G., A., 4(422) + G., D.A., 4(422)
CL	CapAcct64232		= CapAcct64232 + CapBAcct64232
		6423 Buried	
		Fiber Cable	
		Expense	
CM	CapAcct6441	Capped	= CapAcct6441 + CapBAcct6441
		6441 Conduit	
,		Investment	
		System	
		Expense	
CN	CapAcct6410	Capped	= CapAcct6410 + CapBAcct6410
		6410 Cable	
		and Wire	
		Facilities	
		Expense	

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)	CapTotalOper	Capped Total	= CapTotalOperatingExpense + CapBTotalOperationExpense	T1
,	atingExpense	Operating	- cup round pointing expense + cup b round per unon expense	1
	ag.spetise	Expense		}
P	AnnualDepCos	UnCapped	⇒ AnnualDepCost	
-	(Total Annual		{
		6560		1
		Depreciation		
ZQ.	CapAnnualDe	Capped Total	= CapAnnualDepCost	
- ~	pCost	Annual 6560		1
	1,000.	Depreciation		1
$\overline{\mathbb{C}\mathbf{R}}$	AcfAnnualCap	Uncapped	= AcfAnnualCapitalCost	
0	italCost	Total Annual		
	111110000	Capital Cost		
CS	CapAnnualCap	Capped Total	= CapAnnualCapitalCost	
00	italCost	Annual Capital	- Suprimude aprial Sold	
	larcost	Cost		
CT	AnnualTaxCos	UnCapped	= AnnualTaxCost	<u> </u>
	1	Total Annual	- Thindai TuACOSI	
		Tax Cost		
CU	CapAnnualTax	Total Capped	= CapAnnualTaxCost	
{	Cost	Annual Tax	- Cupi timuu tuneest	
	Con	Cost		
CV	AnnualReturn	UnCapped	= AnnualReturnCost	
`	Cost	Total Annual		
1 1	Coar	Return		
CW	CapAnnualRet	Capped Total	= CapAnnualReturnCost	
` ''	urnCost	Annual Return	- Cup Amadirecturies	
CX	<u>u</u>	Uncapped	= (TotalOperatingExpense + AnnualTaxCost + AnnualReturnCost) * VLOOKUP (StateID,	
{		Gross Receipts	StateInformationTable, 5, FALSE) / (1 - VLOOKUP (StateID, StateInformationTable, 5,	
	}	Tax	FALSE))	\
CY		Capped Gross	= (TotalOperatingExpense + CapAnnualTaxCost + CapAnnualReturnCost) * VLOOKUP	
`	ļ	Receipts Tax	(StateID, StateInformationTable, 5, FALSE) / (1 - VLOOKUP (StateID, StateInformationTable,	
1	[Receipts rux	5, FALSE))	
CZ	ResBenchmark	UnCapped	= ResBenchmark!	
	1	Residential	- Control of the Cont	}
]	`	Support Over		}
	}	\$0.00	1	1
	}	Benchmark		
L		Dettettiffatk		

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	,			,
DA	ResBenchmark		= ResBenchmark2	
ĺ	2	Residential		
ĺ	{	Support Over		
(ĺ	\$0.00		1
	·	Benchmark		
DB	ResBenchmark	UnCapped	= ResBenchmark3	
	3	Residential		ł
		Support Over		
		\$0.00		
		Benchmark		
DC	ResBenchmark	UnCapped	= ResBenchmark4	
	4	Residential		
		Support Over		<u> </u>
		\$0.00		1
		Benchmark		}
DD	ResBenchmark	UnCapped	= ResBenchmark5	
	5	Residential]
		Support Over		ł
		\$0.00		
		Benchmark		
DE	ResBenchmark	UnCapped	= ResBenchmark6	
	6	Residential		(
1		Support Over		{
		\$0.00		
- 1		Benchmark		(
DF	ResBenchmark	UnCapped	= ResBenchmark7	
~ }	7	Residential		
- 1		Support Over		
ł		\$0.00		
1		Benchmark		
DG	BusBenchmark	UnCapped	= BusBenchmark1	
- 1	1	Business		
1		Support Over		
}	}	\$0.00		
1		Benchmark		{
DH	BusBenchmark	UnCapped	= BusBenchmark2	
	2	Business		
}	-	Support Over		
Ì		\$0.00		
}		Benchmark		į
		Deliciniark		

DI	D	II-CI	Dur Describer on 1/2
DI	BusBenchmark	UnCapped	= BusBenchmark3
	3	Business	
1		Support Over	
		\$0.00	
L		Benchmark	
DJ	BusBenchmark	UnCapped	= BusBenchmark4
1	4	Business	
		Support Over	
		\$0.00	
]	ļ	Benchmark	
DK	BusBenchmark	UnCapped	= BusBenchmark5
	5	Business	
		Support Over	
		\$0.00	
1		Benchmark	
DL	BusBenchmark	UnCapped	= BusBenchmark6
""	6	Business	
		Support Over	
1 .		\$0.00	
		Benchmark	
DM	BusBenchmark	UnCapped	= BusBenchmark7
DIVI	7	Business	
	'	Support Over	
		\$0.00	
		Benchmark	
	<u> </u>		
DN	CapResBench	Capped	= CapResBenchmark I
	mark1	Residential	
		Support Over	
		\$0.00	
		Benchmark	
DO	CapResBench	Capped	= CapResBenchmark2
	mark2	Residential	
		Support Over	
		\$0.00	
		Benchmark	
DP	CapResBench	Capped	= CapResBenchmark3
	mark3	Residential	
		Support Over	
		\$0.00	
	[Benchmark	
		· .	

DQ	CapResBench mark4	Capped Residential	= CapResBenchmark4	
		Support Over		
		\$0.00		
	<u> </u>	Benchmark		
DR	CapResBench	Capped	= CapResBenchmark5	
	mark5	Residential		
1		Support Over \$0.00		
1		Benchmark		
DS	CapResBench	Capped	= CapResBenchmark6	<u> </u>
	mark6	Residential]
		Support Over		
1		\$0.00		
		Benchmark		
DT	CapResBench	Capped	= CapResBenchmark7	
	mark7	Residential		
1	[Support Over \$0.00		
1		Benchmark		
DU	CapBusBench	Capped	= CapBusBenchmark I	
	mark l	Business		
		Support Over		
		\$0.00		
		Benchmark		
DV	CapBusBench	Capped	= CapBusBenchmark2	
	mark2	Business		
l		Support Over \$0.00		
		Benchmark		
DW	CapBusBench	Capped	= CapBusBenchmark3	
1 1	mark3	Business		
}		Support Over		
		\$0.00		
		Benchmark		
DX	CapBusBench	Capped	= CapBusBenchmark4	
	mark4	Business Support Over		
		Support Over \$0.00		1
		Benchmark		
1				

mark5 Business Support Over \$0.00 Benchmark Capped Business Support Over \$0.00 Benchmark EA CapBusBench Capped Business Support Over \$0.00 Benchmark EA CapBusBench Capped Business Support Over \$0.00 Benchmark EB SqMites Capped Benchmark EB SqMites Area-sq Mites EC AerialRouteLe Aerial Route Ength Length ED BuriedRouteL Length EB Underground Route Length EF NumberofPote Route Length EF NumberofPote Solos Benchmark EF NumberofPote Route Length EF NumberofPote Solos Benchmark EF NumberofPote Solos Benchmark EF NumberofPote Solos Benchmark EF Solos Benchmark EF Solos Benchmark EF Sqmites EF Sqmites EF Solos Benchmark EF Sqmites EF Sqmites EF Solos Benchmark EF Sqmites EF Sqmites EF Solos Benchmark EF Sqmites EF Sqmites EF Sqmites EF Solos Benchmark EF Sqmites EF Sqmites EF Sqmites Benchmark EF Sqmites EF Sqmites Benchmark EF Sqmites EF Sqmites EF Sqmites Benchmark EF Sqmites EF Sqmites EF Sqmites Benchmark EF Sqmites EF Sqmites Benchmark EF Sqmites EF Sqmites EF Sqmites Benchmark EF Sqmites EF Sqmites Benchmark EF Sqmites EF Sqmites EF Sqmites EF Sqmites Benchmark EF Sqmites EF Sqmites Benchmark EF Sqmites E	DY	CapBusBench	Capped	= CapBusBenchmark5	
Support Over So.00 Benchmark Capped mark6 Business Support Over So.00 Benchmark Capped mark7 Support Over So.00 Benchmark Capped mark7 Support Over So.00 Benchmark Capped mark7 Support Over So.00 Benchmark Capped mark7 Capped mark8 Capped mark8 Capped mark8 Capped mark9 Capped mar	וען			— Сарбия бененина кэ	
SO.00 Benchmark Capped mark6 Business Support Over SO.00 Benchmark EA CapBusBench mark7 Capped Business Support Over SO.00 Benchmark EA CapBusBench mark7 Capped Business Support Over SO.00 Benchmark EB SqMiles Area-sq Miles SqMiles Area-sq Miles SqMiles Area-sq Miles Area-s		marks			
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DZ CapBusBench mark6 Business Support Over \$0.00 Benchmark EA CapBusBench mark7 EA CapBusBench mark7 Business Support Over \$0.00 Benchmark					
mark6 Business Support Over S0:00 Benchmark EA CapBusBench mark7 Business Support Over S0:00 Benchmark ES Support Over S0:00 Benchmark ES Support Over S0:00 Benchmark EC AerialRouteLe Aerial Route AerialRouteLength Length ED BuriedRouteL Buried Route BuriedRouteLength Length Length EE UndergroundR Euchgth EUC-10	D7	ComPros Domoh		- Car Dur Danskur auké	
EA CapBusBench Capped Benchmark EA CapBusBench Capped Benchmark Business Support Over \$0.00 Benchmark EB SqMiles Area-sq Miles = SqMiles EC AerialRouteL Aerial Route = AerialRouteLength Length Length ED BuriedRouteL Buried Route ength Length = BuriedRouteLength Length Length = BuriedRouteLength Length Length = BuriedRouteLength Length Length = BuriedRouteLength Length Length = Number of Poles E NumberoffPole S Poles E NumberoffNan holes Poles E GridLinesServ Grid Lines = GridLinesServedonDLC_L E GridLinesServ Grid Lines = GridLinesServedonDLC_S E GridLinesServ Grid Lines = GridLinesServedonDLC_S E GridLinesServ Grid Lines = GridLinesServedonDLC_S E GridLinesServ Grid Lines = GridLinesServedonDLC_S E GridLinesServ Grid Lines = GridLinesServedonDLC_S E GridLinesServ Grid Lines = GridLinesServedonDLC_S E GridLinesServ Grid Lines = GridLinesServedonDLC_S E GridLinesServ Grid Lines = GridLinesServedonDLC_S E GridLinesServ Grid Lines = GridLinesServedonDLC_S E GridLinesServ Grid Lines = GridLinesServedonDLC_S E GridLinesServ Grid Lines = GridLinesServedonCopper E K Number of DLC L L Terminals DLC-L L Terminals DLC-L L Terminals DLC-L L Terminals E Number of DLC_S STerminals E Number of DLC STerminals E Number of DLC_S STerminals E Number of DLC STerminals E Number of DLC_S STERMINA E Data Stermina	DL			= Capbusbenciima ko	
So.00 Benchmark EA CapBusBench Capped Business Support Over So.00 Benchmark EB SqMiles Area-sq Miles = SqMiles = AerialRouteLength Ength Length Ength Length Ength Ength Europe Ength Europe		marko			
Benchmark					
EA CapBusBench mark7 Support Over \$0.00 Benchmark EB SqMiles Area-sq Miles = SqMiles EC AerialRouteLe ngth ED BuriedRouteL ength ED BuriedRouteL ength EE UndergroundR Underground outeLength outeLength Route Length EF NumberofPole Number of solon DLC_L EG GridLinesServ edon DLC_S EJ GridLinesServ edon Copper EK NumberofDLC Served on DLC_S EJ GridLinesServ edon Copper EK NumberofDLC Served on DLC_S EJ GridLinesServ edon Copper EK NumberofDLC Served on DLC_S EJ GridLinesServ edon Copper EK NumberofDLC Served on DLC_S EJ GridLinesServ edon Copper EK NumberofDLC Served on DLC_S EJ GridLinesServ Served on DLC_S EJ GridLines Served on DLC_S EJ GridLinesServ Served on DLC_S EJ	1				
mark7 Business Support Over \$0.00 Benchmark EB SqMiles Area-sq Miles = SqMiles EC AerialRouteLe ngth	EA	CanBusBench		- CanRus Ranchmark 7	
Support Over So.00 Benchmark	EA			- Capbusbenenniak/	
SQMiles Area-sq Miles EQUATION	}	inai K	I I		
Benchmark]				
EB SqMiles Area-sq Miles = SqMiles = AerialRouteLe Aerial Route = AerialRouteLength ED BuriedRouteL Buried Route = BuriedRouteLength			1		
EC AerialRouteLe ngth	EB	SaMiles		= SaMiles	
Right					
ED BuriedRouteL ength Elegit	LC		1 1	- Achtikoutebengtii	
ength Length EE UndergroundR outeLength Route Length EF NumberofPoles FOles EG NumberofMan holes EH GridLinesServ edonDLC_L EI GridLinesServ edonDLC_S EJ GridLinesServ edonCopper EK NumberofDLC EK NumberofDLC EK NumberofDLC EI GridLinesServ edonCopper EK NumberofDLC EI GridLinesServ edon DLC-S EI GridLinesServ edon DLC-S EI GridLinesServ edon DLC-S EI GridLinesServ edon DLC-S EI GridLinesServ edon DLC-S EI GridLinesServ edon DLC-S EI GridLinesServ edon DLC-S EI GridLinesServ edon DLC-S EI GridLinesServ edon DLC-S EI GridLinesServ edon DLC-S EI GridLinesServ edon DLC-S EI GridLinesServ edon DLC-S EI GridLinesServ edon DLC-S EI GridLinesServ edon EdonCopper EK NumberofDLC Number of DLC-L EI Terminals EL NumberofDLC Number of Sumber of DLC-L EI NumberofDLC Sereminals EL NumberofDLC Number of Sumber of SumberofDLC_Sereminals	ED			= BuriedRouteLength	
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outeLength Route Length EF NumberofPole S EG NumberofMan Number of holes EH GridLinesServ edonDLC_L Served on DLC-L EI GridLinesServ edonDLC_S Served on DLC-S EJ GridLinesServ Grid Lines EJ GridLinesServ edonCopper EK NumberofDLC Number of DLC-L EI NumberofDLC Number of DLC-L EI NumberofDLC Number of DLC-L EI NumberofDLC Number of DLC-L EI NumberofDLC Number of Served on Copper EV NumberofDLC Number of Served on DLC-L EI NumberofDLC Number of Served on Copper EI NumberofDLC Number of Served on Copper EI NumberofDLC Number of Served on Copper EI NumberofDLC Number of Served on Copper EI NumberofDLC Number of Served on Copper EI NumberofDLC Number of Served on Copper	EE			= UndergroundRouteLength	
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holes	EG	NumberofMan		= NumberofManholes	
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edonCopper Served on Copper	EJ	GridLinesServ	Grid Lines	= GridLinesServedonCopper	
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LTerminals DLC-L Terminals DLC-L Terminals = Number of DLC_STerminals	L		Copper_		
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	EL	NumberofDLC		= NumberofDLC_STerminals	
_STerminals DLC-S		_STerminals	DLC-S		
Terminals			Terminals		

EM	HHByCost_1	Households By	= IF (GridLines = 0, 0, IF (GetByCostindex (AcfAnnualCapitalCost / GridLines / 12 +	
1		Cost < \$5	MonthlyOperatingExpenseperLine * ResProportion + BMonthlyOperatingExpenseperLine *	
		<u> </u>	BusProportion) = 1, HouseHolds, 0))	
EN	HHByCost_2	Households By	= IF (GridLines = 0, 0, IF (GetByCostindex (AcfAnnualCapitalCost / GridLines / 12 +	
ĺ		Cost < \$10	MonthlyOperatingExpenseperLine * ResProportion + BMonthlyOperatingExpenseperLine *	ĺ
			BusProportion) = 2, HouseHolds, 0))	
EO	HHByCost_3	Households By	= IF (GridLines = 0, 0, IF (GetByCostindex (AcfAnnualCapitalCost / GridLines / 12 +	
}		Cost < \$15	MonthlyOperatingExpenseperLine * ResProportion + BMonthlyOperatingExpenseperLine *	
Ĺ			BusProportion) = 3, HouseHolds, 0))	
EP	HHByCost_4	Households By	= IF (GridLines = 0, 0, IF (GetByCostindex (AcfAnnualCapitalCost / GridLines / 12 +	
Į		Cost < \$20	MonthlyOperatingExpenseperLine * ResProportion + BMonthlyOperatingExpenseperLine *	
<u></u>			BusProportion) = 4, HouseHolds, 0))	
EQ	HHByCost_5	Households By	= IF (GridLines = 0, 0, IF (GetByCostindex (AcfAnnualCapitalCost / GridLines / 12 +	
	1	Cost < \$25	MonthlyOperatingExpenseperLine * ResProportion + BMonthlyOperatingExpenseperLine *	1
L	L		BusProportion) = 5, HouseHolds, 0))	
ER	HHByCost_6	Households By	= IF (GridLines = 0, 0, IF (GetByCostindex (AcfAnnualCapitalCost / GridLines / 12 +	
	•	Cost < \$30	MonthlyOperatingExpenseperLine * ResProportion + BMonthlyOperatingExpenseperLine *	
L		<u> </u>	BusProportion) = 6, HouseHolds, 0))	
ES	HHByCost_7	Households By	= IF (GridLines = 0, 0, IF (GetByCostindex (AcfAnnualCapitalCost / GridLines / 12 +	Ì
ł	ļ	Cost < \$35	MonthlyOperatingExpenseperLine * ResProportion + BMonthlyOperatingExpenseperLine *	1
ļ		<u> </u>	BusProportion) = 7, HouseHolds, 0))	
ET	HHByCost_8	Households By	= IF (GridLines = 0, 0, IF (GetByCostindex (AcfAnnualCapitalCost / GridLines / 12 +	1
		Cost < \$40	MonthlyOperatingExpenseperLine * ResProportion + BMonthlyOperatingExpenseperLine *	1
			BusProportion) = 8, HouseHolds, (0))	
EU	HHByCost_9	Households By	= IF (GridLines = 0, 0, IF (GetByCostindex (AcfAnnualCapitalCost / GridLines / 12 +	
		Cost < \$45	MonthlyOperatingExpenseperLine * ResProportion + BMonthlyOperatingExpenseperLine *	1
			BusProportion) = 9, HouseHolds, 0))	
EV	HHByCost_10	Households By	= IF (GridLines = 0, 0, IF (GetByCostindex (AcfAnnualCapitalCost / GridLines / 12 +	[
	•	Cost < \$50	MonthlyOperatingExpenseperLine * ResProportion + BMonthlyOperatingExpenseperLine *	l
		<u> </u>	BusProportion) = 10, HouseHolds, 0))	
EW	HHByCost_11	Households By	= IF (GridLines = 0, 0, IF (GetByCostindex (AcfAnnualCapitalCost / GridLines / 12 +	l
		Cost < \$55	MonthlyOperatingExpenseperLine * ResProportion + BMonthlyOperatingExpenseperLine *	
			BusProportion) = 11, HouseHolds, 0))	
EX	HHByCost_12	Households By	= IF (GridLines = 0, 0, IF (GetByCostindex (AcfAnnualCapitalCost / GridLines / 12 +	1
		Cost < \$60	MonthlyOperatingExpenseperLine * ResProportion + BMonthlyOperatingExpenseperLine *	J
		ļ	BusProportion) = 12, HouseHolds, (0))	
EY	HHByCost_13	Households By	= IF (GridLines = 0, 0, IF (GetByCostindex (AcfAnnualCapitalCost / GridLines / 12 +	1
{		Cost < \$65	MonthlyOperatingExpenseperLine * ResProportion + BMonthlyOperatingExpenseperLine *	
]		<u> </u>	BusProportion) = 13, HouseHolds, 0))	

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EZ HHByCost_14 Households By = IF (GridLines = 0, 0, IF (GetByCostindex (AcfAnnualCapitalCost / GridLines / 12 + MonthlyOperatingExpenseperLine * ResProportion + BMonthlyOperatingExpenseperLine * BusProportion) = 14, HouseHolds, 0)) FA HHByCost_15 Households By = IF (GridLines = 0, 0, IF (GetByCostindex (AcfAnnualCapitalCost / GridLines / 12 + 12 + 13 + 14 + 14 + 14 + 14 + 14 + 14 + 14	
BusProportion) = 14, HouseHolds, 0)) FA HHByCost_15 Households By = IF (GridLines = 0, 0, IF (GetByCostindex (AcfAnnualCapitalCost / GridLines / 12 +	
FA HHByCost_15 Households By = IF (GridLines = 0, 0, IF (GetByCostindex (AcfAnnualCapitalCost / GridLines / 12 +	
Cost < \$75 MonthlyOperatingExpenseperLine * ResProportion + BMonthlyOperatingExpenseperLine *	
BusProportion) = 15, HouseHolds, 0))	ı
FB HHByCost_16 Households By = IF (GridLines = 0, 0, IF (GetByCostindex (AcfAnnualCapitalCost / GridLines / 12 +	
Cost < \$100 Cost < \$100 MonthlyOperatingExpenseperLine * ResProportion + BMonthlyOperatingExpenseperLine *	
BusProportion) = 16, HouseHolds, (9)	
	[
BusProportion) = 17, HouseHolds, (0))	
FD HHByCost_18 Households By = IF (GridLines = 0, 0, IF (GetByCostindex (AcfAnnualCapitalCost / GridLines / 12 +]
Cost <\$200 MonthlyOperatingExpenseperLine * ResProportion + BMonthlyOperatingExpenseperLine *	1
BusProportion) = 18, HouseHolds, (1)	
FE HHByCost_19 Households By = IF (GridLines = 0, 0, IF (GetByCostindex (AcfAnnualCapitalCost / GridLines / 12 +	1
Cost < \$250 MonthlyOperatingExpenseperLine * ResProportion + BMonthlyOperatingExpenseperLine *	ĺ
BusProportion) = 19, HouseHolds, 0))	
FF HHByCost_20 Households By = IF (GridLines = 0, 0, IF (GetByCostindex (AcfAnnualCapitalCost / GridLines / 12 +	1
Cost < \$300 MonthlyOperatingExpenseperLine * ResProportion + BMonthlyOperatingExpenseperLine *	i
BusProportion) = 20, HouseHolds, 0))	
FG HHByCost_21 Households By = IF (GridLines = 0, 0, IF (GetByCostindex (AcfAnnualCapitalCost / GridLines / 12 +	Ì
Cost < \$500 MonthlyOperatingExpenseperLine * ResProportion + BMonthlyOperatingExpenseperLine *	
BusProportion) = 21, HouseHolds, 0))	
FH HHByCost_22 Households By = IF (GridLines = 0, 0, IF (GetByCostindex (AcfAnnualCapitalCost / GridLines / 12 +	ļ
Cost < MonthlyOperatingExpenseperLine * ResProportion + BMonthlyOperatingExpenseperLine *	1
\$10,000 BusProportion) = 22, HouseHolds, 0))	
FI HHByCost_23 Households By = IF (GridLines = 0, 0, IF (GetByCostindex (AcfAnnualCapitalCost / GridLines / 12 +	j
Cost > MonthlyOperatingExpenseperLine * ResProportion + BMonthlyOperatingExpenseperLine *	}
\$10,000 BusProportion) = 23, HouseHolds, 0))	
FJ HHByLoop_1 Households By = IF (getbyloopindex (LinesLoopLength, GridLines) = 1, HouseHolds, 0)	1
Loop < 5K	
FK HHByLoop_2 Households By = IF (getbyloopindex (LinesLoopLength, GridLines) = 2, HouseHolds, 0)	
Loop < 10K	
FL HHByLoop_3 Households By = IF (getbyloopindex (LinesLoopLength, GridLines) = 3, HouseHolds, 0)	
Loop < 15K	
FM HHByLoop_4 Households By = IF (getbyloopindex (LinesLoopLength, GridLines) = 4, HouseHolds, 0)	
Loop < 20K	
FN HHByLoop_5 Households By = IF (getbyloopindex (LinesLoopLength, GridLines) = 5, HouseHolds, 0)	
Loop < 25K	

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	1	1	· · · · · · · · · · · · · · · · · · ·		-y
FO	HHByLoop_6	Households By		= IF (getbyloopindex (LinesLoopLength, GridLines) = 6, HouseHolds, 0)	
		Loop < 30K			
FP	HHByLoop_7	Households By		= IF (getbyloopindex (LinesLoopLength, GridLines) = 7, HouseHolds, 0)	
		Loop < 40K			
FQ	HHByLoop_8	Households By		= IF (getbyloopindex (LinesLoopLength, GridLines) = 8, HouseHolds, 0)	
		Loop < 50K			
FR	HHByLoop_9	Households By		= IF (getbyloopindex (LinesLoopLength, GridLines) = 9, HouseHolds, 0)	
	' '-	Loop < 60K			1
FS	HHByLoop_1	Households By		= IF (getbyloopindex (LinesLoopLength, GridLines) = 10, HouseHolds, 0)	
	0	Loop < 70K		in (gete) isopinion (2mes2eep2engm, enesmis)	
FT	HHByLoop_1	Households By		= IF (getbyloopindex (LinesLoopLength, GridLines) = 11, HouseHolds, 0)	
	1	Loop < 80K		- If (gett/) toopinden (Emession) serial mess) = 11, 11 outself of serial mession of	
FU	HHByLoop_1	Households By		= IF (getbyloopindex (LinesLoopLength, GridLines) = 12, HouseHolds, 0)	
	1111byE00p_1	Loop < 90K		= 11 (getbytoophidex (Effesboopheright, Gridbines) = 12, Houserholds, 0)	
FV	HHByLoop_1	Households By		= IF (getbyloopindex (LinesLoopLength, GridLines) = 13, HouseHolds, 0)	
F V	1111byLoop_1	Loop < 100K		= 11 (getbyloophidex (Effestoophength, OrldEffes) = 13, Houserfolds, 0)	
FW	HHByLoop_1	Households By		= IF (getbyloopindex (LinesLoopLength, GridLines) = 14, HouseHolds, 0)	
F VV	HIDYLOOP_1	Loop < 150K		= ir (gethyroophidex (Effest cooptength, OrldEffes) = 14, Houserfolds, 0)	
EV	HIID-L	 • 		= IF (getbyloopindex (LinesLoopLength, GridLines) = 15, HouseHolds, 0)	
FX	HHByLoop_1	Households By		= IF (getbyloopindex (LinesLoopLength, OrldLines) = 13, Households, 0)	
EN	5	Loop < 200K			
FY	HHByLoop_1	Households By		= IF (getbyloopindex (LinesLoopLength, GridLines) = 16, HouseHolds, 0)	
<u> </u>	6	Loop > 200K			<u> </u>
FZ	LinesAbove10	Lines Above		= IF (GridLines = 0, 0, IF ((LoopCost / GridLines) > InvLoopCap, HouseHolds, 0))	
	KLoopInv	10K Loop			
		Investment			ļ
GA		Minimum	Data for this		
		Loop Length	column		
			developed for		
			each density		
			group only.		
		l	Appended to		
			record before		
			data is written		
			out.		
			data is written		

BCPM Workoook: Rptcalc.xls

GB	Maximum	Data for this	
	Loop Length	column	
		developed for	1
	1	each density	
		group only.	
		Appended to	
1	1	record before	
		data is written	
}	}	out.	
			1

BCPM

Release 3.0

Excel Logic Switching

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Workbook: E:\bcpm3 Master Copy\Modules\switching\switch.xls

File date: 12/11/97 3:57:50 AM

Comments:

Worksheets:

LERG Inputs

FCC Inputs

SCM Inputs

ALSM Inputs

Userdata

Input Summary

LoopLinecount

Characteristics

Intermediate

Complex

RateCenter

Main Logic

Output

Global Inputs

State Default Inputs

Coefficient Inputs

Sheet: Userdata

Col	Range Name	Column Name	Column	Formula	Formula
			Comment		Comment
A		CLLI			
В		OCN			
C		Switch Type			
D		Engineered Calls /Line			
E		Engineered CCS /Line			
F		Lines Trunk			
G		Percent Fill			

Sheet: Input Summary

Col	Range Name	Column Name	Column Comment	Formula	Formula Comment
A	InpSumST	State		= STATE	
B	InpSumOCN	OCN		= LergOCN	<u> </u>
$\overline{\mathbf{c}}$	InpSumCLLI	CLLI		= LergCLLI	
D	InpSumHCLLI	HCLLI		= IF (LergHCLLI = 0, " ", LergHCLLI)	
E	InpSumCompl ex	Complex		= LergComplex	
F	InpSumCompl exID	ComplexID		= LergComplexID	
G	InpSumRTCT R	RATE CENTER		= LergRateCTR	
Н	InpSumSwVdr	SW Vendor	The model takes the switch vendor from the User Data table if available. If the switch vendor is not input, then the default switch type from the State Defaults data table is used. The ? indicates that the default was used.	= IF (ISERROR (VLOOKUP ('InpSumCLLI', userdata, 3, FALSE)), "?", (VLOOKUP (\$'InpSumCLLI', userdata, 3, FALSE)))	
I	InpSumHR	Host/ Remote		= IF (D3 < > " ", "R", IF (ISNA (VLOOKUP ('Input Summary'!C3, 'LERG Inputs'!D:E, 1, FALSE)) , "S", "H"))	
J	InpSumResLin esEng	# of Res Lines (Eng.)		= InpSumResLinesWrk / VLOOKUP (InpSumST, defaults, 28, FALSE)	
K	InpSumBusLin esEng	#of Bus Lines (Eng.)		= InpSumBusLinesWrk / VLOOKUP (InpSumST, defaults, 28, FALSE)	
L	InpSumResLin esWrk	Working Lines Residence		= VLOOKUP ('InpSumCLLI', LineTable, 2, FALSE)	

				
M	InpSumBusLin	Working Lines	= VLOOKUP ('InpSumCLLI', LineTable, 3, FALSE)	
	esWrk	Business		
N	InpSumEngCal	Engineered	= IF (InpSumOpt = 1, InpSumUsrCalls, IF (InpSumOpt = 2, InpSumDefcalls, InpSumCalcCalls)	
l	ls	Calls/Line		
0	InpSumEngCC	Engineered	= IF (InpSumOpt = 1, InpSumUsrCCS, IF (InpSumOpt = 2, InpSumDefCCS, InpSumCalcCCS))	
	S	CCS/Line		
P	InpSumPctfill	Percent fill	= IF (NOT (ISNUMBER (VLOOKUP ('InpSumCLLI', userdata, 7, FALSE))) , VLOOKUP	
1	1		(InpSumST, defaults, 28, FALSE), VLOOKUP ('InpSumCLLI', userdata, 7, FALSE))	
Q	InpSumLnsTrk	Lines/Trunk	= IF (NOT (ISNUMBER (VLOOKUP ('InpSumCLLI', userdata, 6, FALSE))) , VLOOKUP	
	1		(InpSumST, defaults, 27, FALSE), VLOOKUP ('InpSumCLLI', userdata, 6, FALSE))	
R	InpSumTrks	Trunks	= IF (InpSumHR = "R", 0, (InpSumResLinesEng + InpSumBusLinesEng) / InpSumLnsTrk)	
S		Call	= VLOOKUP (MID (InpSumCLLI, 5, 2), 'State Default Inputs'!\$A\$3:\$AE\$54, 31, FALSE)	
"		Completion	**Doortor (Mib (impouniesis), 5, 2), State Betaut inputs .prices-4, 51, 171252)	
1		Fraction		
T		Busy Hour	= (InpSumEngCalls * InpSumFeatureLdMult) / S3	
1 *		Calls Factor	- (Inpounizing cans impounit cature Edividit) 7 33	
U	InpSumSwCou	Switch Count		
	nt	3 when Count		
V	InpSumOpt	Option	= IF (InpSumUsrCalls < > " ", 1, IF (Engineering_Option = "C", 3, 2))	
W	InpSumUsrCal	Option 1: User	= IF (Inpountosicans < > ', 1, IF (Engineering_Option = C', 3, 2)) = IF (ISERROR (VLOOKUP ('InpSumCLLI', userdata, 4, FALSE)) , " ", (VLOOKUP	
\ *	1	Input Calls	('InpSumCLLI', userdata, 6, FALSE)))	
	ls	/Line	(Inpsumcler, userdata, 6, PALSE)))	
$\frac{1}{X}$	InpSumUsrCC	Option 1: User	= IF (ISERROR (VLOOKUP ('InpSumCLLI', userdata, 5, FALSE)), "", (VLOOKUP	
A	S	Input CCS		
1	3	/Line	('InpSumCLLI', userdata, 7, FALSE))))	
17	I. C. D.C. II		WOOMID'A C. CELLC IV C. EALCE)	
Y	InpSumDefcall	Option 2:	= VLOOKUP (InpSumST, defaults, 6, FALSE)	
	S	Default Calls		
-	I G D CCC	/Line	THEORY ID A COUNTY OF THE PARTY	
Z	InpSumDefCC	Option 2:	= VLOOKUP (InpSumST, defaults, 7, FALSE)	
]	S	Default		
<u> </u>	1 6 6 6	CCS/Line		
AA	InpSumCalcCa	Option 3:	= VLOOKUP (InpSumST, defaults, 16, FALSE)	
1	lls	Calculated		
<u> </u>		Calls /Line		
AB	InpSumCalcC	Option 3:	= VLOOKUP (InpSumST, defaults, 17, FALSE)	
1	CS	Calculated		
		CCS /Line		
AC	InpSumOffPct	Office Percent	= InpSumBusLinesEng / (InpSumBusLinesEng + J3)	
	BusLin	Business Lines		
AD	InpSumSlope	Slope	= (HB_Mult - Min_Mult) / (1 - Bus_Pen_Ratio)	

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AE	InpSumFeature	Feature	= IF (AC3 < Bus_Pen_Ratio, Min_Mult, Min_Mult + (AC3 - Bus_Pen_Ratio) * AD3)	
	LdMult	Loading		
		Multiplier		
AF	InpSumProcUs	Proc Usage to	= (InpSumFeatureLdMult - 1) / InpSumFeatureLdMult	
1	g	Feature		

BCPM Workbook: switch.xls

Sheet: LoopLinecount

Col	Range Name	Column Name	Column	Formula	Formula
ł	-		Comment		Comment
A		CLLI			
В		Reslines			
C		Buslines			

Sheet: Characteristics

Col	Range Name	Column Name	Column	Formula	Formula
	_		Comment		Comment
A	Workpaper	Title	<u></u>	State	
В					<u> </u>
С	Characteristics		The purpose of this sheet is to develop allocation percentages to assign the appropriate portion of each total investment	= STATE	
D			bucket to USF.		
E					
F					
G					
H					
Ī					
J					
K					
L					
M					
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0					
P					
Q					
R					
S					
T					
U					
v					
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X					
Y					
Z					

	Т	1	<u> </u>	
AA	 			
AB				
AC			<u> </u>	
AD				
AE				
AF				
AG				
AH				
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AJ				
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